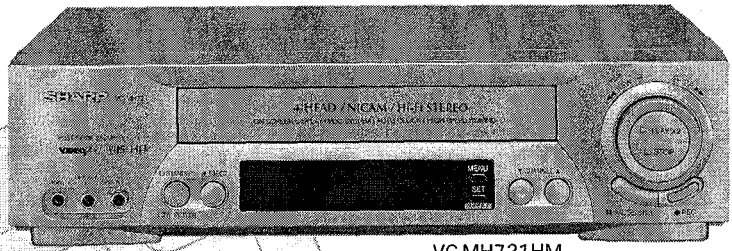
SHARP



VC-MH721HM

VC-M321HM
VC-MH721HM
VC-MH721LM

VIDEO CASSETTE RECORDER
OPERATION MANUAL

- LOW POWER FEATURE
- CHILD LOCK
- SHARP SUPER PICTURE
- POST CODE SECURITY

VHS
PAL

VIDEOPlus+

Dear SHARP Customer

Thank you for buying this SHARP VCR. Given proper care it will provide years of entertainment for the whole family. Please read this operation manual carefully before attempting to operate the VCR.

Copyright

- Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to the relevant laws in your country.

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- VIDEO Plus+ and PlusCode are trademarks of Gemstar Development Corporation.

- VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.

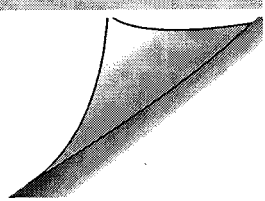
THIS MANUAL COVERS A RANGE OF MODELS. ALL OF THE FEATURES MENTIONED MAY NOT NECESSARILY APPLY TO YOUR VCR.

SAFETY WARNINGS

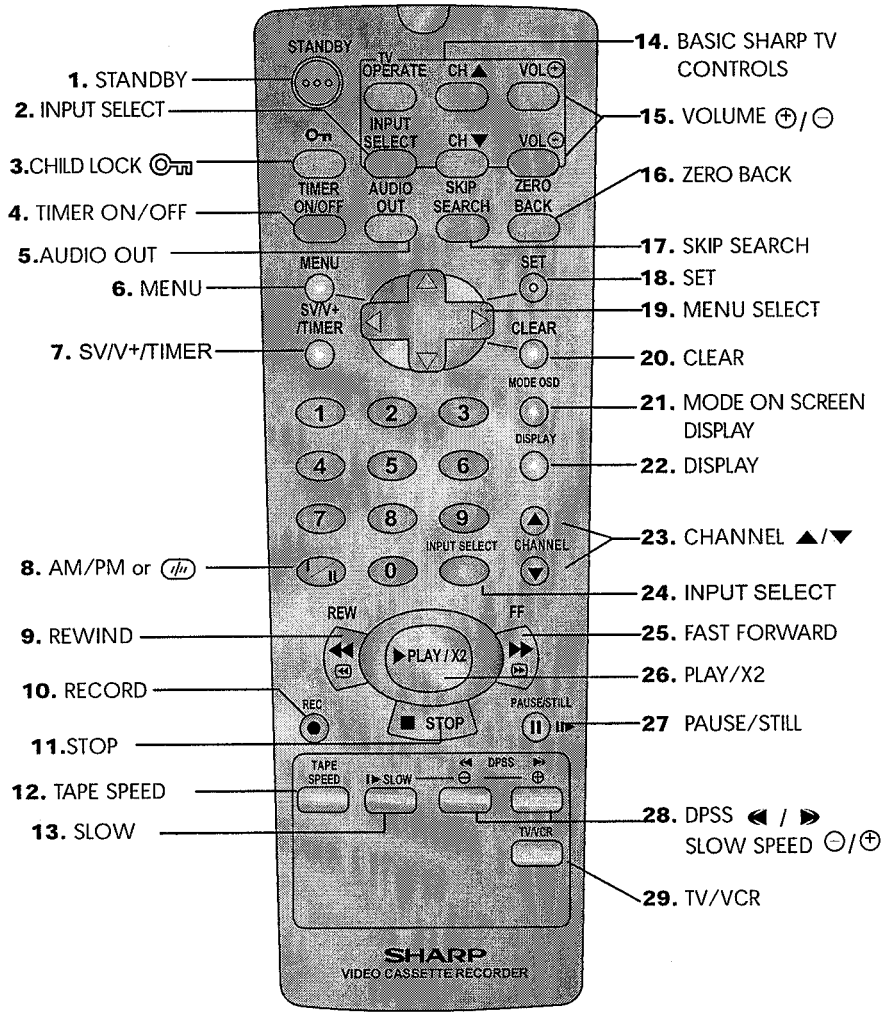
Observe all warnings for your safety and to ensure trouble free use of your VCR.

INFORMATION

Additional information complements instructions.



VCR REMOTE CONTROL



VCR FRONT PANEL/REMOTE CONTROL EQUIVALENT FUNCTIONS.

If you prefer, or if remote control batteries fail, you will need to use the VCR front panel controls. The only differences in function are shown below:

FUNCTION OSD	OPERATION WITH REMOTE CONTROL	OPERATION WITH VCR FRONT PANEL
Moving DOWN/UP menu Moving LEFT/RIGHT menu	[▲/▼] buttons [◀/▶] buttons	**CHANNEL** ▲/▼ buttons. REW/FF buttons.

CALLING FOR SERVICE

- If you are unable to resolve a problem using the TROUBLESHOOTING guide, do not remove the cabinet or attempt to service this VCR yourself.
- For service please contact your dealer. If this is not possible, please call our Customer Information Centre for details of your nearest Sharp Service Centre.
- Please note that for repairs during the guarantee period, you will need to produce proof of purchase.
- **SCART** leads can be obtained from the **SHARP Parts Centre**: Willow Vale Electronics Limited Tel. Manchester 0161 682 1415/ Reading 01189 876444. Most credit/debit cards accepted.

SHARP Customer Information Centre: Tel: 0990 274277

This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

- Specifications are subject to change without notice as part of our policy of continuous improvement.
- No liability is accepted for any inaccuracies or omissions in this publication, although every possible care has been taken to make it complete and as accurate as possible.

SHARP ELECTRONICS (U.K.) Ltd.

Printed in U.K.

TINS-3297UMN1 2

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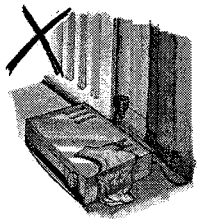
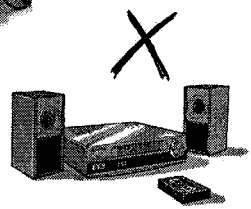
IMPORTANT NOTES ON YOUR VCR

IDEAL VCR LOCATION

PLACE THE VCR..

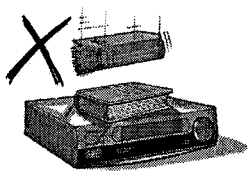
- ..on a flat level surface away from radiators or other heat sources and out of direct sunlight.
- ..and video tapes away from magnetic sources such as speakers or microwave ovens.
- ..at least 8" (20cm) away from the TV.
- ..away from curtains, carpets or other materials and allow ventilation space around the VCR.

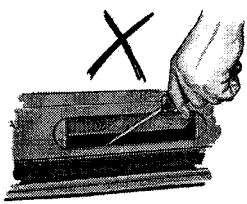




DO NOT..

- ..block the air-vent openings.
- ..expose the VCR to excessive dust, mechanical vibration or shock.
- ..place any heavy object or liquid on top of the VCR. If liquid drops inside the VCR unplug immediately and contact your SHARP dealer. Do not use the VCR.
- ..insert or drop anything into the tape compartment or through the air-vents, as this could result in serious damage, fire or an electric shock.



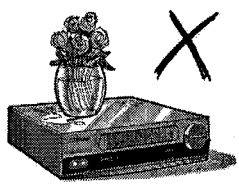


POWER SOCKETS

- To avoid overheating or even fire, insert the plug correctly into the socket

DO NOT..

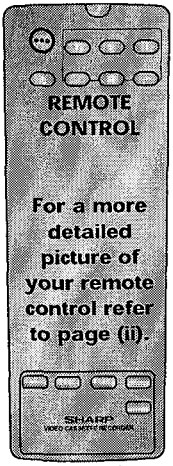
- ..overload power sockets, this may cause a fire or electric shock.
- ..pull the power cord to disconnect the plug from the mains.
- ..bind the power cords together.



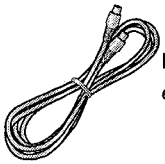
- This VCR is not equipped with a mains power switch. Accordingly, nominal current to drive the clock is drawn at all times when the AC power cord is plugged into a wall socket. If the VCR is not to be used for an extended period be sure to unplug the cord.

UNPACKING THE ACCESSORIES

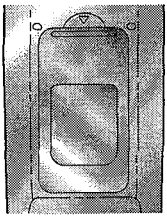
CHECK ALL THESE ACCESSORIES ARE SUPPLIED WITH YOUR VCR. CONTACT YOUR DEALER IF ANY ARE MISSING.



(TYPE AA/R6/UM3) BATTERIES (X2) for the remote control unit.



RF CONNECTION CABLE *connects the VCR to the TV.*



Battery cover

To fit the batteries into the remote control

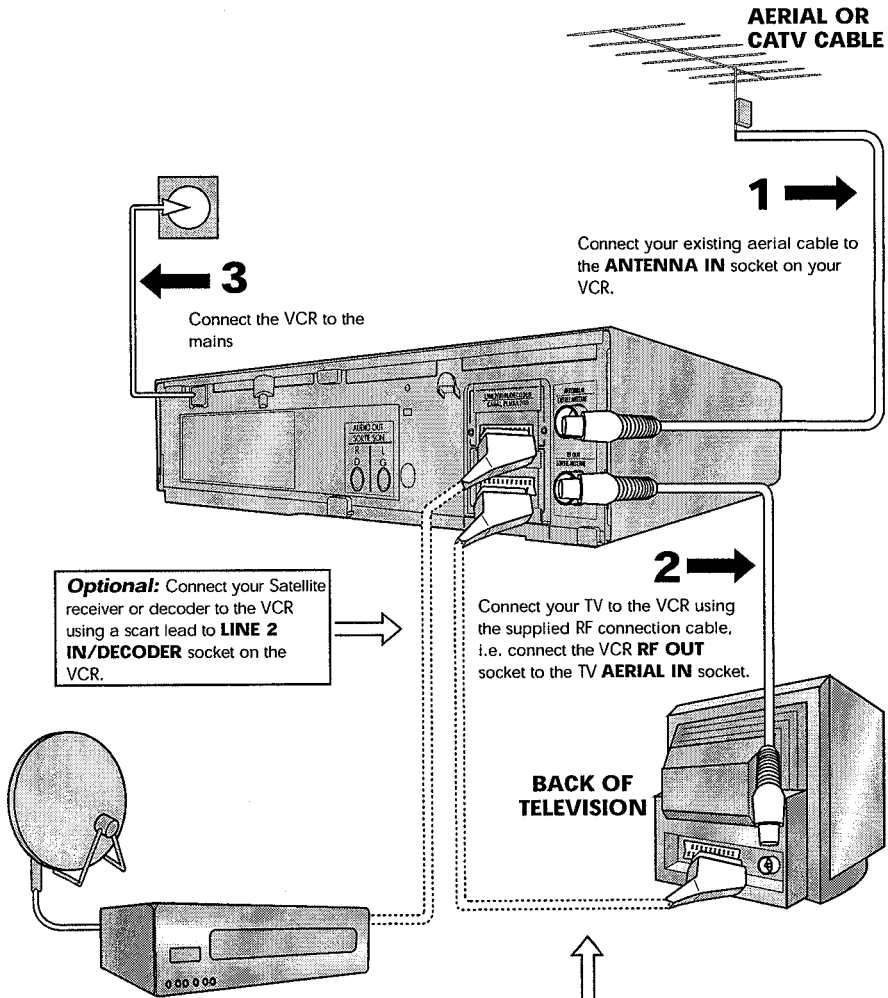
Remove the battery cover on the back of the remote control.

Fit the batteries: ⊖ to ⊖ and ⊕ to ⊕ terminals. Place the battery cover back into position.

Remote Control

- Remote Control must be pointed towards the VCR to operate.
- Do not expose to liquid or shock.
- May not function if the VCR is in direct sunlight or any other strong light.
- Replace both alkaline batteries (type AA/R6/UM3) if the remote control fails.
- Remove the batteries and keep in a safe place if you do not plan to use the VCR for several months.
- Remove and dispose of flat batteries safely and promptly.
- Incorrect use of batteries may cause them to leak or burst.

CONNECTING THE CABLES


AERIAL OR
CATV CABLE
1
Connect your existing aerial cable to the **ANTENNA IN** socket on your VCR.
3
Connect the VCR to the mains
2
Connect your TV to the VCR using the supplied RF connection cable, i.e. connect the VCR **RF OUT** socket to the TV **AERIAL IN** socket.
Optional: Connect your Satellite receiver or decoder to the VCR using a scart lead to **LINE 2 IN/DECODER** socket on the VCR.
BACK OF TELEVISION
DECODER UNIT OR SATELLITE SYSTEM
Optional SCART (not supplied). If you have a scart lead connect it to your TV and **LINE 1 IN/OUT** socket on the VCR.

✓ **The VCR is correctly connected.**

TUNING THE TV INTO THE VCR

IMPORTANT NOTE: By pressing the STANDBY button, the VCR will toggle between STANDBY and LOW POWER modes. The VCR display will not be illuminated in low power mode.

1. Ensure your VCR is still in the STANDBY mode (not low power).

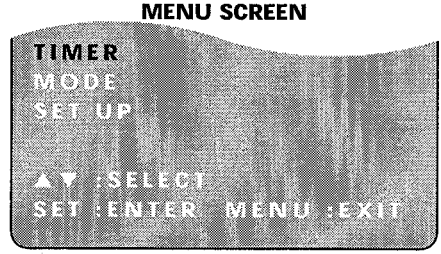
2. Switch on the TV. Select an unused channel on your TV for your VCR (there may be a dedicated video channel refer to your TV operation manual).

3. Press and hold the **MENU** button for 3 seconds. The VCR will search and display the ideal RF channel.

e.g.

4. Tune the selected channel on your TV (refer to your TV manual) until the menu screen appears.

MENU SCREEN



5. Press **SET** to store the RF channel and to place the VCR back into STANDBY.

NOTE:
If you have a preferred channel, the RF channel can be set manually (21-69) after Step 3 using [▲/▼] keys.

If problems persist contact SHARP Consumer Information Centre 0990-274277

✓ **The TV is tuned to the VCR.**

AUTO INSTALLATION

Press **STOP** to switch on your VCR.
This model will automatically tune in the TV channels in your area, sort them into a standard order and set the clock.

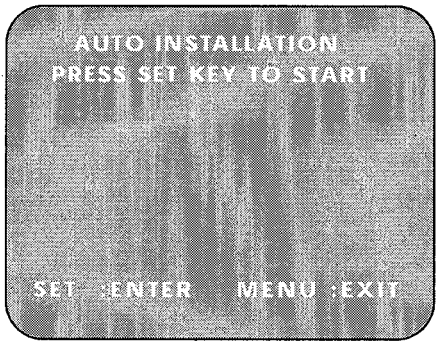
The screen opposite should be showing on your TV.

Follow the instructions from the screens.
(Auto sort will take a few minutes to complete)

On completion, the MOVE MENU will appear showing the present channel order. Press **MENU** to exit.

If the clock is NOT automatically set, the clock screen will appear, refer to **MANUALLY SETTING THE CLOCK.** To check the clock has been set correctly, press **DISPLAY** until the time appears on the display.

If you wish to customise the channel order refer to **MANUALLY SORTING CHANNELS.**



- If the screen above does not appear, follow the procedure **VCR RESET** below.

VCR RESET

1. Press **STOP** to switch on the VCR.
2. Press and hold **MENU** and **Channel ▼** buttons together on the front of the VCR for 10 seconds.
3. The AUTO INSTALLATION screen should now be showing on your TV.
4. Follow the on-screen display to proceed with auto installation.

Refer to the **CUSTOMISED INSTALLATION** chapter if:
- Your VCR could not tune automatically - due to for example poor reception.
- You wish to re-arrange the channel order.
- You wish to change the time on the clock or if the VCR could not set the time.

✓ **All the programmes should now be correctly tuned in and the clock set.**

IMPORTANT NOTES ON YOUR VCR AND VIDEO TAPES

VIDEO TAPES

- If you use only good quality video tapes, generally it will not be necessary to clean the video heads.
- If poor quality tapes are used, or if a tape is loaded after changing VCR location, oxide from the tape may "clog" the video heads. This will cause the playback picture to be "snowy", or even disappear.
- To remove minor contamination run a video tape in visual search mode. If this fails, you will need to have the heads cleaned by a SHARP Service Facility. Please note, if cleaning is necessary it is not covered by the guarantee.
- Use video tapes which carry the VHS PAL mark.

HOW TO PLAYBACK A VIDEO TAPE

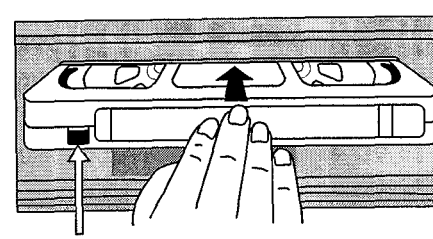
BEFORE YOU PLAYBACK A VIDEO TAPE

Condensation forms in the VCR when it is moved out of or into a warm place. If you try to playback or record, the video tape and VCR may be damaged. Turn the VCR on and wait for about two hours until the VCR reaches room temperature before operating.

PLAYBACK

1. Switch on your TV and select the video channel.
2. Carefully push a pre-recorded video tape into the tape compartment. This will switch the VCR on.

- If the record-protection tab has been removed, the VCR will start playback as soon as the video tape has been loaded.



Record-protection tab

3. To start playback, press **PLAY/X2** (►).

HOW TO PLAYBACK A VIDEO TAPE

SHARP SUPER PICTURE should enhance the picture quality during playback. It is normally set to ON. To turn **SHARP SUPER PICTURE** on or off press **SUPER P.** (SET) on the VCR front panel.

- For double speed playback (without sound), press **PLAY/X2** (▶) again.
- To revert to normal playback, press **PLAY/X2** (▶) again.
- To stop the video tape, press **STOP** (■).
- To eject the tape press ⏏ on the VCR.

PICTURE DISTURBANCE DURING PLAYBACK

This VCR has an automatic tracking system which reduces picture disturbance when you start to playback a video tape. When auto-tracking is in operation ✳ flashes on the on-screen display. If the picture still has disturbance you may need to manually track the video tape:

During PLAYBACK of a video tape.

- Press **CHANNEL** ▲ or ▼ to position picture interference off the TV screen. (Manual Tracking)
- Press **CHANNEL** ▲ and ▼ buttons together to start Auto Tracking.

PAUSING AND SLOW MOTION

1. Press **PLAY/X2** (▶) to start the video tape playing.
2. To pause the video tape, press **PAUSE/STILL** (❚❚).
- To minimise jitter whilst in pause mode press **CHANNEL** ▲ or ▼.
- Press **PLAY/X2** (▶) to resume playback.

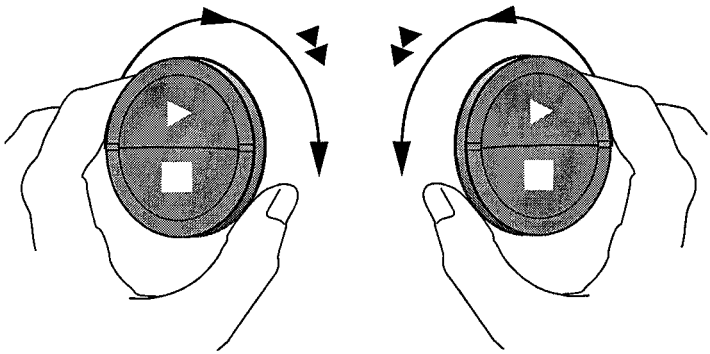
3. To playback in slow motion (without sound) press I▶ **SLOW** on the remote control. Slow motion speed can be adjusted using the ⊖ or ⊕ buttons next to the slow button. Picture disturbance can be improved by using the **CHANNEL** ▲ or ▼ during slow motion playback.

- Press **PLAY/X2** (▶) to resume playback.

NOTES:

- There will be picture interference and possibly a change to black and white picture using Pause and Slow functions.
- PAUSE mode will disengage after about 5 minutes.

HOW TO PLAYBACK A VIDEO TAPE



FAST FORWARDING/REWINDING A VIDEO TAPE

1. Press **STOP** (■) to stop the video tape.
2. Press **FAST FORWARD** (▶▶)/ **REWIND** (◀◀) on the remote control **or** turn the shuttle ring on the VCR to the **right/left** and release.
3. To stop fast forward/rewind, press **STOP** (■) .

FORWARD/REVERSE VISUAL SEARCH

1. During playback, press **FAST FORWARD** (▶▶)/**REWIND** (◀◀) on the remote control, or turn the shuttle ring fully to the **right/ left**.
2. To lock search mode turn the shuttle far **right/left** and release.
3. To decrease the speed, press **FAST FORWARD** (▶▶) **/REWIND** (◀◀) again, or turn the shuttle to the halfway position.
4. Press **PLAY/X2** (▶) to resume playback.

NOTE:

- There will be picture interference and possibly a change to black and white picture using Visual Fast Forward/Rewind functions.

IMMEDIATE RECORDING

SELECTION OF A CHANNEL

Select the channel by using the number buttons on the remote control, or select the next/previous channel by pressing **CHANNEL** ▲ or ▼.
To change between single digit and 2-digit channel numbers, press (-/--).
For example, for channel 24, press (-/--) then press **2 4**.

You can record the channel you are watching or a different channel.

1. Insert a video tape into your VCR.

2. Select the channel you wish to record on the VCR.

3. To start recording, press **RECORD** (●).

4. To pause during recording, press **PAUSE/STILL** (❚❚).

5. To continue recording, press **RECORD** (●).

6. To stop recording, press **STOP** once.

SIMPLE TIMED RECORDING:

1. To specify a stop time, press **RECORD** (●).
2. Each additional press of **RECORD** (●) will delay the stop time by 10 minutes.
3. To stop recording at any time, press **STOP** (■) once.

NOTES:

- If the tape ends before the recording is complete the VCR will stop recording and rewind.
- If the VCR ejects the video tape when you press **RECORD** (●) the tape is record protected, i.e. record protection tab has been removed.

HOW TO USE VIDEOPlus+ TO MAKE A RECORDING

- If ◰ appears on the VCR display, press **TIMER ON/OFF** before starting.
- Check that the clock is displaying the correct time.

VIDEOPLUS+ allows you to program the VCR to record up to eight programmes using the VIDEOPLUS+ numbers published in TV listings.

1. Press **[SV/V+/TIMER]** on the remote control.
2. Enter the VIDEOPLUS+ number from the TV listing using the **NUMBER BUTTONS**.

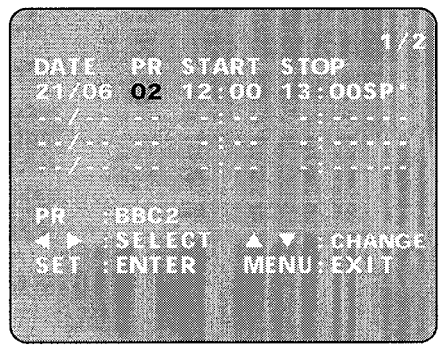
NOTE:
● An ERROR message will appear if you have entered a number that is not a current VIDEOPLUS+ number. If this happens press **CLEAR** to delete the numbers as required and enter the correct VIDEOPLUS+ number

3. Press **[▲/▼]** to select ONCE, WEEKLY, DAILY.
4. If you want to make additional recordings at the same time each day or week, then use **[◀/▶]** to select the WEEKLY, or DAILY option as appropriate.
5. Press **SET** to confirm.

NOTE:
● Check that the menu list agrees with the times shown in the TV listing. If it does not press **CLEAR** to return to theVIDEOPLUS+ menu, and re-enter the correct VIDEOPLUS+ number.

The first time that you use VIDEOPLUS+ to make a recording on each channel Preset, (PR) may be highlighted on the menu.

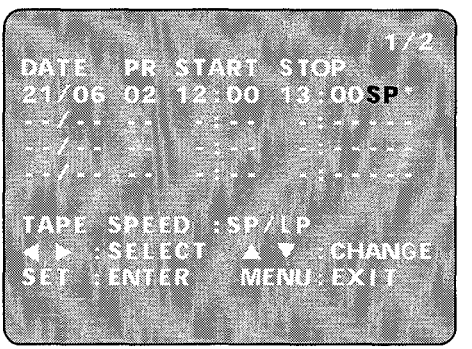
6. Enter the channel you wish to record using the **NUMBER BUTTONS**, for example if you wish to record channel 2 press **0 2**. The VCR will remember this for the future.



NOTES:
You may also access the VIDEOPLUS+ menu by the following procedure
i. Press **MENU**.
ii. The VIDEOPLUS+ option will be highlighted. Press **SET** to confirm.
Continue from step 2 above.

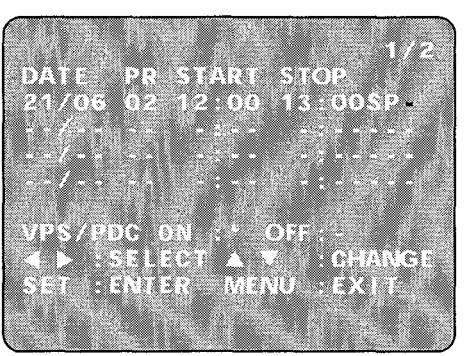
HOW TO USE VIDEOPlus+ TO MAKE A RECORDING

7. *If your VCR has long play facility* and you wish to change the **RECORDING SPEED**, use the **[◀/▶]** to highlight SP. Press **[▲/▼]** to select standard play or long play as required.



8. [See **NOTE** below]. For VPS/PDC setting use **[◀/▶]** to highlight the final column. Using the **[▲/▼]** will select VPS/PDC ON or OFF (* = ON - = OFF).

9. Press **SET** to confirm the programme. The VIDEOPLUS+ menu will reappear. If you wish to enter further VIDEOPLUS+ recordings repeat this procedure.



10. When you have completed entering timer settings, press **MENU** to remove the menu from the TV screen.

11. Press **TIMER ON-OFF** once to place the VCR in TIMER STANDBY mode. ⏲ will be shown on the display.

NOTES:

- VPS/PDC is a signal broadcast by some TV stations which adjusts the start and stop time of your VCR recording. This ensures that if there is a change in broadcast time for your programme the VCR will still record the whole programme. It is ESSENTIAL that the start time as it appears in the TV listing is used to program the VCR, as this information is used to identify the VPS/PDC signal corresponding to your programme.
- If ⏲ flashes a video tape has not been inserted into the VCR.
- If the video tape is ejected when the VCR tries to record the record protection tab has been removed.
- During recording, press **STOP** (■) to cancel the recording. If there are further recordings to be made, the VCR will return to TIMER STANDBY.

HOW TO SET A DELAYED RECORDING

You can make a maximum of eight delayed recordings up to a year in advance.
The example shown is for 24-hour clock operation. 12-hour clock operation can be selected from the manual clock setting menu.
12-hour clock am/pm can be selected using the **AM/PM** (/) button on the remote control.

- If ⏲ appears on the VCR display, press **TIMER ON/OFF** before starting.
- Check that the clock is displaying the correct time.

SETTING A RECORDING

For example: Recording a programme on channel 3 from 21:05 to 22:30 on July 9th.

1. Press **STOP** (■) to switch on the VCR.

2. Press **MENU**.

3. Press **[▲/▼]** to select TIMER. Press **SET** to confirm.

4. The position which is initially highlighted is the next available timer record entry. Press **SET** to confirm this.

- The display will automatically show today's date.

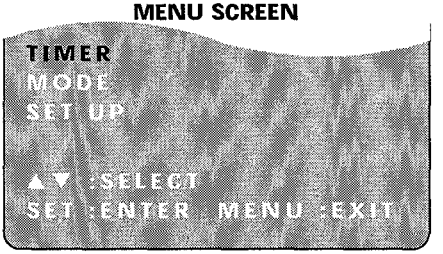
Either: If this is the date you wish to make the recording on, press **SET** to confirm this.
Or: enter the recording date using the **NUMBER BUTTONS.** Enter two digits for the day, then two for the month. For example for July 9th, press **0 9** (9th), then **0 7** (July).

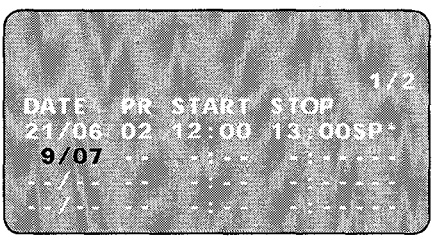
5. Then press **SET** to confirm.

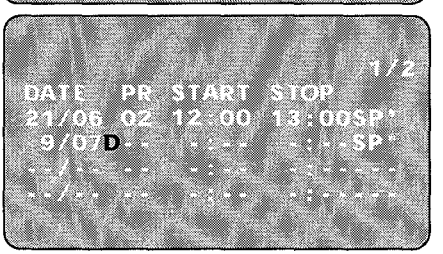
6. If you want to make additional recordings at the same time each day or week, use **[▲/▼]** to select D (daily) or W (weekly). Then press **SET** to confirm.

7. Enter the channel using the **NUMBER BUTTONS**. For example to record a programme on channel 3, press **0 3**. Then press **SET** to confirm.

MENU SCREEN







HOW TO SET A DELAYED RECORDING

8. Enter the start time using the **NUMBER BUTTONS** - hours first then minutes (when entering less than 10 minutes add a '0' before the number), for example for 21:05 start, press **2 1 0 5**. Then press **SET** to confirm.

9. Enter the stop time, for example for 22:30 stop, press **2 2 3 0**.

10. *If your VCR has long play facility* and you wish to change the **RECORDING SPEED**, use the **[◀/▶]** to highlight SP. Press **[▲/▼]** to select standard play or long play as required.

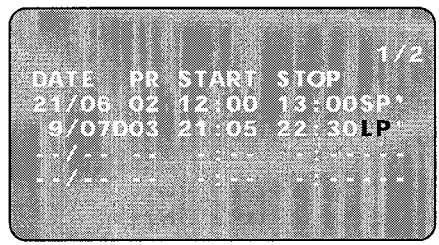
11. [See **NOTE** below]. For VPS/PDC setting use **[◀/▶]** to highlight the final column. Using the **[▲/▼]** will select VPS/PDC ON or OFF (* = ON - = OFF).

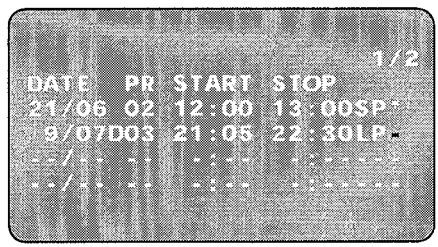
12. Press **SET** to confirm.

- The MENU now shows all the timer settings you have entered. If you wish to make additional timer recordings, repeat this procedure.

13. When you have completed entering timer settings, press **MENU** to remove the menu from the TV screen.

14. Press **TIMER ON-OFF** once to place the VCR in TIMER STAND-BY mode. ⏲ will be shown on the display.





NOTES:

- VPS/PDC is a signal broadcast by some TV stations which adjusts the start and stop time of your VCR recording. This ensures that if there is a change in broadcast time for your programme the VCR will still record the whole programme. It is ESSENTIAL that the start time as it appears in the TV listing is used to program the VCR, as this information is used to identify the VPS/PDC signal corresponding to your programme.
- If ⏲ flashes a video tape has not been inserted into the VCR.
- If the video tape is ejected when the VCR tries to record the record protection tab has been removed.
- During recording, press **STOP** (■) to cancel the recording. If there are further recordings to be made, the VCR will return to TIMER STANDBY.

HOW TO SET A DELAYED RECORDING

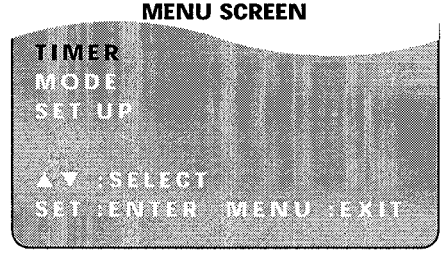
CHECKING, CHANGING AND CANCELLING A RECORDING

CHECKING A RECORDING

1. If in TIMER STANDBY mode, press **TIMER ON/OFF** to exit.
2. Press **STOP** to switch on the VCR.
3. Press **MENU**.
4. Press **[▲/▼]** to select TIMER. Press **SET** to confirm.

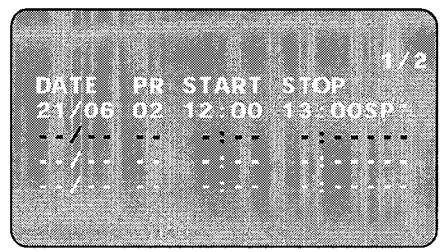
- All the delayed recordings in the VCRs memory will be shown.
- You can check the settings and change or cancel them.

MENU SCREEN



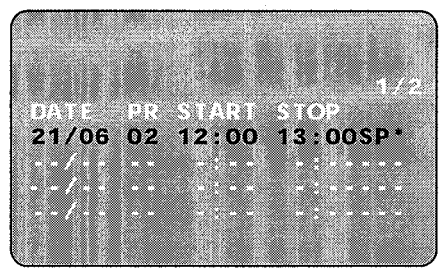
CHANGING A RECORDING

1. Follow steps 1 to 4 of **CHECKING A RECORDING.**
2. If you wish to change a delayed recording, press **[▲/▼]** to highlight the recording, then press **SET**.
3. Press **[◀/▶]** to highlight the setting to be changed and correct it by using the **[▲/▼]** or the **NUMBER BUTTONS.**
4. When all corrections are complete press **SET**, then press **MENU**.



CANCELLING A RECORDING

1. Follow steps 1 to 4 of **CHECKING A RECORDING.**
2. If you wish to cancel a delayed recording, press **[▲/▼]** to highlight the recording to be cancelled, then press **CLEAR**.
3. Press **MENU**.



NOTE:

- If there are some programmes to be recorded, do not forget to press **TIMER ON-OFF** button to return the VCR to TIMER STAND-BY mode.

AUDIO AND YOUR VCR (HiFi VCR'S Only)

HI-FI STEREO SOUND

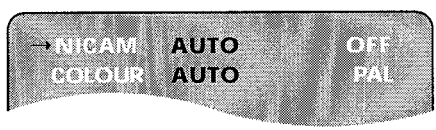
Stereo sound is possible from Hi-Fi VCR's if you have a **stereo TV connected to the VCR with a scart lead,** or audio equipment connected with audio phono leads. The VCR is normally set so that stereo sound is possible. The sound output from the VCR is controlled by the **AUDIO OUT** button on the remote control. If you wish to change the sound output you can use the **AUDIO OUT** button as follows:

- Press **AUDIO OUT** once. The LEFT audio channel will be sent to BOTH speakers. **L** will appear on the VCR display.
- Press **AUDIO OUT** twice. The RIGHT audio channel will be sent to BOTH speakers. **R** will appear on the VCR display.
- Press **AUDIO OUT** three times. The MONO track will be sent to BOTH speakers. **L** and **R** will disappear from the VCR display.
- Pressing **AUDIO OUT** a fourth time, normal Hi-Fi stereo sound will be heard. **L** and **R** will appear on the VCR display.

NICAM Hi-Fi STEREO SOUND

Your VCR can receive and record NICAM sound. The VCR is normally set so that NICAM sound is possible if it is present on the receiving signal, otherwise the VCR will automatically switch to receive the mono signal. NICAM sound can be turned off. If you wish to do this follow the procedure below:

1. Press **MENU** to display the main menu on the screen.
2. Press **[▲/▼]** to select MODE.
3. Press **SET**. NICAM will be selected.
4. Press **[◀/▶]** to select OFF.
5. Press **SET** to return to the menu screen.
6. Press **MENU** to exit to normal screen.



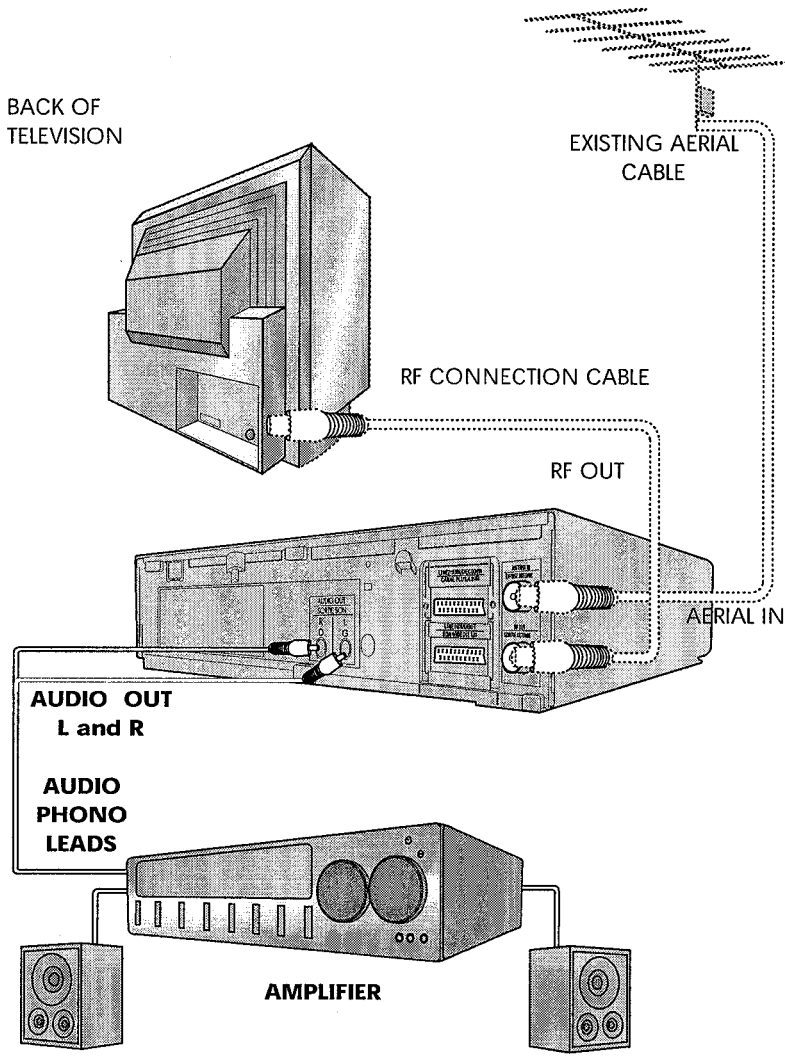
NOTES:

- If the tape being played back does not carry sound recorded on Hi-Fi tracks, **L** and **R** will not appear on the display.
- If the sound contains 'crackling' or 'popping' noises the sound quality may be improved by adjusting the tracking using **CHANNEL ▲ / ▼**.
- If the poor quality is for a long period the VCR will automatically select the mono track and the sound will be in mono.
- NICAM sound may not be stereo.

AUDIO AND YOUR VCR (HiFi VCR'S Only)

CONNECTING TO AUDIO EQUIPMENT

The diagram below shows how to connect your VCR to audio equipment. When connected in this way stereo sound is possible from the speakers.



PLAYBACK OF A VIDEO TAPE

CHECKING THE AMOUNT OF TAPE REMAINING

When you load a video tape into the VCR it can calculate approximately the amount of video tape remaining in hours and minutes. This is useful in determining whether or not there is sufficient tape left to make a recording.

When a video tape is playing, the amount of tape remaining is calculated for you automatically.

To display the amount of video tape remaining:

1. Load the video tape into the VCR.
2. Press **DISPLAY** on the remote control as many times as necessary until "R" appears on the VCR display. The tape will wind forward and then return to its original position. The tape remaining will be shown on the VCR display in hours and minutes.

For example, if 1 hour 23 minutes is left on the tape:

NOTES

- Do not interrupt the tape remaining calculation.
- If less than 5 minutes of tape remains the display will flash.

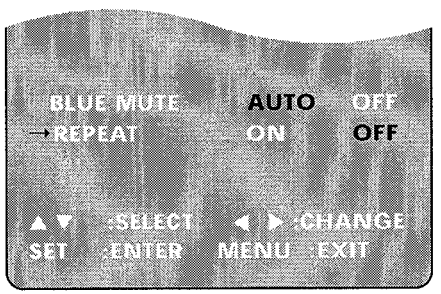
PLAYING BACK A VIDEO TAPE REPEATEDLY

You can set your VCR to automatically rewind at the end of playing a video tape and replay the entire tape again. REPEAT will appear on the on-screen display when selected.

To use this feature:

1. Press **MENU** to display the main menu on the screen.
2. Press **[▲/▼]** to select MODE.
3. Press **SET**.
4. Press **[▲/▼]** to select REPEAT.
5. Press **[◀/▶]** to select ON.
6. Press **SET**.
7. Press **MENU** to return to normal screen.

MODE MENU SCREEN



PLAYBACK OF A VIDEO TAPE

PLAYING BACK AN NTSC TAPE

NTSC (National Television Standards Committee) is a different TV standard to PAL and is used in some Non-European Countries. Your VCR can playback pre-recorded NTSC tapes onto a PAL system TV, but cannot record an NTSC signal onto a video tape.

Note that..

- You cannot record NTSC signals or dub NTSC tapes onto other VCRs from this VCR.
- You cannot use Slow speed, Still frame, Double Speed, Frame Advance or Tape Remaining with a pre-recorded NTSC tape.
- On some televisions, the picture may appear in black and white or there may be no picture. This does not indicate a fault with your VCR.
- On some televisions, the picture may shrink vertically causing black bands to appear at the top and bottom of your screen.
- On some televisions, the played-back picture may roll vertically, this does not indicate a fault with your VCR.

DIGITAL DISPLAY

TIME OF DAY

Shows current time of day, if the clock is set. Press **DISPLAY** until the time of day appears. For example, 21:20 appears:

OPERATION MODE

Shows status of tape. Press **DISPLAY** until the display appears, for example:

TAPE COUNTER AND ZERO BACK

Tape counter measures the current position of the video tape in real time. ZERO BACK uses the tape counter to determine a specific point on a tape you may wish to return to.

1. Press **DISPLAY** until tape counter appears, for example:

2. To identify the current position on a video tape press **CLEAR** and the tape counter will appear:

When you wish to return to this position on the video tape, press **ZERO BACK**. The tape will rewind/advance to this point.

NOTE:

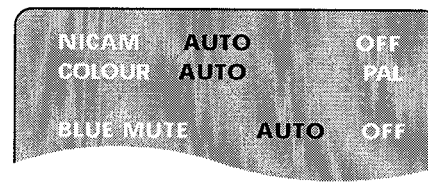
- The tape counter will only operate on recorded sections of tape.

BLUE MUTE

The TV screen will be blue if a TV channel with no signal is selected, an unrecorded section of tape is played or the quality of the recording on the tape is poor. Select OFF to disable this feature

1. Press **MENU** to display the main menu on the screen.
2. Press **[▲/▼]** to select MODE.
3. Press **SET**.
4. Press **[▲/▼]** to select BLUE MUTE.
5. Press **[◀/▶]** to select OFF.
6. Press **SET** and then **MENU** to return to the normal screen.

MODE MENU SCREEN



COLOUR

If the VCR is playing poor quality recording, the picture may turn black and white. Selecting PAL may improve this (depending on the recording), although coloured speckles may appear on black and white recordings.

1. Follow steps 1 to 3 from BLUE MUTE.
2. Press **[▲/▼]** to select COLOUR.
3. Press **[◀/▶]** to select AUTO/PAL.
4. Press **SET** and then **MENU** to return to the normal screen.

SEARCHING THE VIDEO TAPE

SKIP SEARCHING THE VIDEO TAPE

You can search the tape in 30 second time intervals. To do this follow the procedure below:

1. Press **PLAY/X2** (▶) to start the video tape playing.

2. Press **SKIP SEARCHING** on the remote control. The number of times you press **SKIP SEARCHING** determines the forward search time.

1 press = 30 seconds.
2 presses = 1 minute.
3 presses = 1 minute 30 seconds.
4 presses = 2 minutes.

- After searching, normal playback will resume automatically.

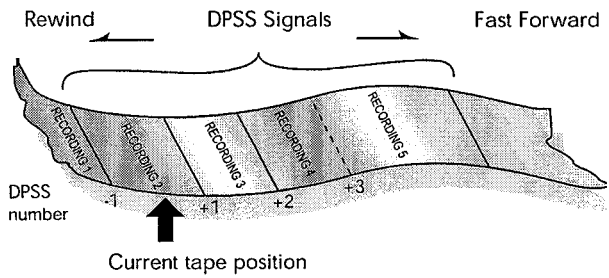
SEARCHING THE VIDEO TAPE

DIGITAL PROGRAMME SEARCH SYSTEM (DPSS)

Your VCR records a marker signal on the tape at the start of each recording. These signals can be used later to locate the starting point of a recording.

Press **DPSS** ◀◀ / ▶▶ to locate a previous programme or the next programme.
For example,

1. Load the video tape into the VCR
2. Press **DPSS** ▶▶ three times. A **3** will appear on the on-screen display, and the VCR will fast forward to locate the third recording after the current one.
3. Press **DPSS** ◀◀ once. A **-1** will appear on the on-screen display and the VCR will rewind to locate the beginning of the current recording.



4. To cancel the search before it has finished, press **STOP** (■) or **PLAY/X2** (▶).

NOTES:

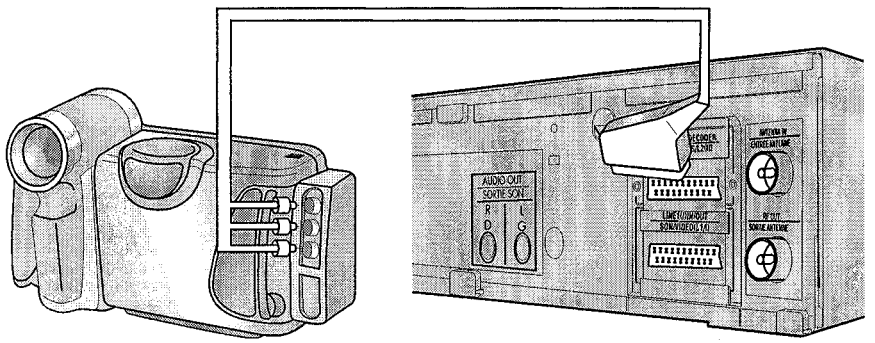
- Recordings must be longer than 3 minutes.
- The starting point of playback may vary.
- This feature will only work with video tapes recorded on a VCR with the DPSS feature.

RECORDING FROM OTHER EQUIPMENT

You can record video and audio signals from various sources, for example a camcorder, onto a video tape using your VCR.

For example, recording from a camcorder connected to LINE 2 IN/DECODER on your VCR:

Optional SCART connection (not supplied).

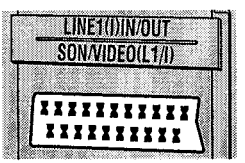


Mono/Stereo camcorder

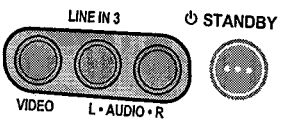
1. Load tape into the VCR.

2. Press **INPUT SELECT** on the remote control until the VCR display shows L2.

3. If you wish to record from a source connected to LINE 1 IN/OUT, select **L1**.



4. If you wish to record from a source connected with audio phono leads to the sockets on the front of the VCR (if fitted), select **L3**.



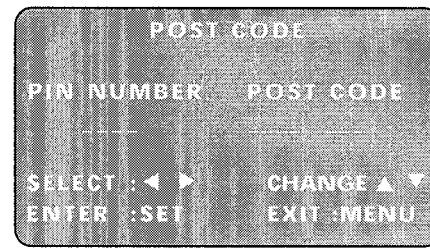
NOTE:

- There are many different ways of connecting external equipment to your VCR. Please refer to your equipment operation manuals for further information.

POST CODE SECURITY

This feature should allow the Police to identify you as the owner of the VCR if it is stolen. Each time the VCR is turned on your postcode will be displayed for 5 seconds on your TV. Your postcode cannot be changed or removed without first entering the correct PIN - number. If you wish to use this function, follow the procedure below.

1. Press **MENU**.
2. Press **[▲/▼]** to select SET UP. Press **SET** to confirm.
3. Press **[▲/▼]** to select POST CODE. Press **SET** to confirm.
4. Enter your desired PIN number using the **NUMBER BUTTONS** or the **[▲/▼]** key. This must be a 4 digit number in the range 0000 - 9999.
5. Using the **[▲/▼ / ◀/▶]** key, enter your Postcode. Press **SET** to confirm.
6. Record your PIN number in the box provided for future reference.



NOTE:
Your Postcode can be changed at any time, but you must first enter your correct PIN number. If the wrong PIN number is entered, an ERROR message will appear. Re-enter the correct number.

If you wish to change your PIN number at any time:

1. Follow steps 1 to 3 above.
2. Enter your current PIN number. Press **SET** to confirm.
3. Press ◀ to re-select PIN number.
4. Enter your new PIN number. Press **SET** to confirm.

IMPORTANT:- Please keep your Operation Manual separate from your VCR.

LOW POWER FEATURE

To meet new power regulations your VCR can be placed in LOW POWER mode. In LOW POWER mode the VCR power consumption is reduced to below 1 Watt.

LOW POWER MODE

1. Press **STANDBY** (⏻) to place the VCR in STANDBY mode.
2. Press **STANDBY** (⏻) again to place the VCR in LOW POWER mode. The VCR digital display will appear blank.

The VCR power consumption will now be below 1 Watt.

DISENGAGING LOW POWER MODE

Either Press **STANDBY** (⏻) to return the VCR to STANDBY mode.
Or Press **STOP** (■) to use the VCR.

NOTES:
- When disengaging LOW POWER mode from the VCR press the STANDBY button.
- With poor signal conditions an increase in noise may be observed on the screen in LOW POWER mode.
- When entering STANDBY, noise may be observed.
- If a signal is input from an AV source, the VCR may not go into true LOW POWER mode.

CHILD LOCK

You can lock your VCR with this feature. It will work even when the VCR is in standby, preventing children from operating the VCR.

TO ENGAGE CHILD LOCK

Press and hold 🔒 on the remote control for about 2 seconds.
🔒 flashes and then 🔒 remains lit on the VCR display confirming that CHILD LOCK has been activated.

Regardless of what other operating buttons are touched, the VCR will continue to operate in its present mode. If CHILD LOCK is activated during playback, once the tape reaches its end, the VCR will automatically rewind the tape, eject it, and turn the power off.

TO DISENGAGE CHILD LOCK

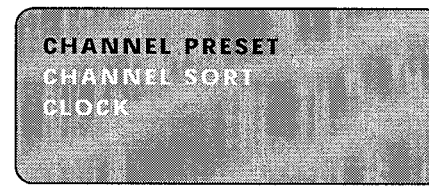
Press and hold 🔒 for about 2 seconds.
🔒 starts flashing and then disappears. CHILD LOCK is disengaged.

NOTES:
- If you attempt to change modes by pressing another button while CHILD LOCK is on, the 🔒 indicator will flash on the VCR display.
- If power is interrupted for more than 60 seconds (due to power failure etc), CHILD LOCK may disengage.

MANUALLY TUNING A CHANNEL

It should not be necessary to tune in a broadcast channel manually except in unusual circumstances such as poor signal.
To manually tune in a channel follow the procedure below.

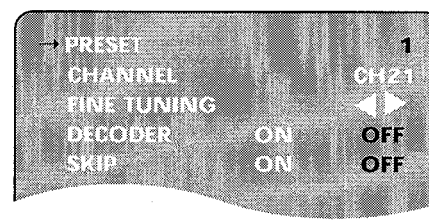
1. Press **MENU**.
2. Press **[▲/▼]** to select SET UP. Press **SET** to confirm.
3. CHANNEL PRESET will be highlighted. Press **SET**.
4. Press **[▲/▼]** to select CHANNEL.



IMPORTANT NOTE: - (VC-MH721LM ONLY)

5. Press (TV) to select CH or CC. This will determine whether off air (CH) or cable (CC) is tuned first. Note that both off air and cable will be tuned regardless of the setting.

6. Press **[◀/▶]** to start tuning in either direction. Tuning will stop when a channel is received. If it is not the desired channel, press **[◀/▶]** to continue tuning.
7. Press **[▲/▼]** to select FINE TUNING. Press and hold **[◀/▶]** until the sharpest colour picture is obtained.



IMPORTANT NOTE:

8. If you connect an independant decoder, you must press **[▲/▼]** to select DECODER, then select **[◀/▶]** to turn the decoder function on.

9. Press **[▲/▼]** to select SKIP. The SKIP function determines whether the channel can be selected when using **CHANNEL ▲/ ▼** instead of the **NUMBER BUTTONS**.
10. Press **[◀/▶]** to select ON or OFF for this option.
11. Press **SET** to confirm.
12. Press **MENU** to leave this function.

CABLE RECEPTION FOR VC-MH721LM MODEL ONLY

Station Signals **VHF**	Real Channel Numbers
A	01
B	02
C	03
D	04
E	05
F	06
G	07
H	08
J	09

MANUALLY SORTING CHANNELS

SORTING THE CHANNELS INTO YOUR PREFERRED ORDER

When your VCR tunes in broadcast channels automatically it sorts them into a standard order using teletext information. You can change the order of the channels with the following procedure.

1. Press **MENU**.

2. Press **[▲/▼]** to select SET UP. Press **SET** to confirm.

3. Press **[▲/▼]** to select CHANNEL SORT. Press **SET** to confirm.

4. The MOVE position will be highlighted. Press **SET** to confirm.

5. Press **[▲/▼]** to highlight the channel to be moved. Press **SET** to confirm.

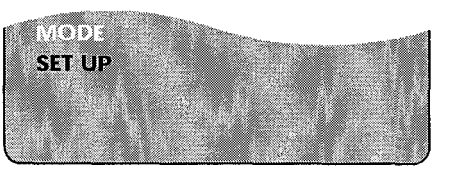
6. Press **[▲/▼]** to highlight the new position for the channel. Press **SET** to confirm.

7. If any more channels are to be moved, repeat the procedure from step 5.

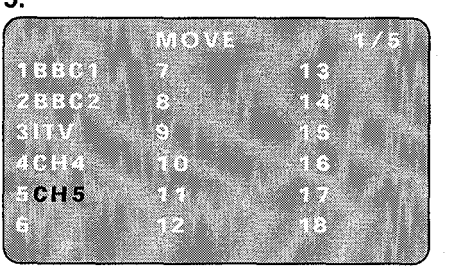
8. When all the channels are in your preferred order, press **MENU** to leave the MENU function.

MENU SCREEN

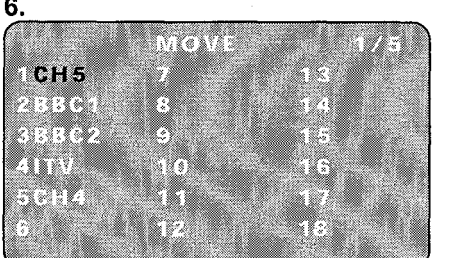
2.



5.



6.



MANUALLY SORTING CHANNELS

DELETING CHANNELS

If there is a channel you wish to delete from the VCR memory you can follow the procedure below.

1. Press **MENU**.

2. Press **[▲/▼]** to select SET UP. Press **SET** to confirm.

3. Press **[▲/▼]** to select CHANNEL SORT. Press **SET** to confirm.

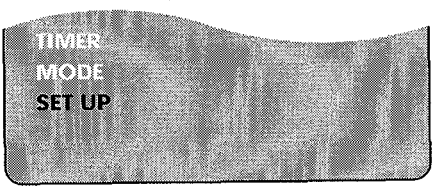
4. Press **[▲/▼]** to select CANCEL. Press **SET** to confirm.

5. Press **[▲/▼]** to highlight the channel to be cancelled.

6. Press **SET** twice to cancel the channel.

7. When all the channels you wish have been cancelled, press **MENU**.

2. **MENU SCREEN**



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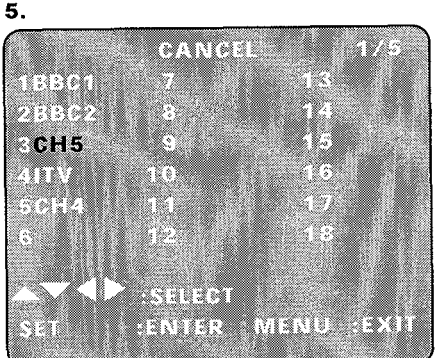

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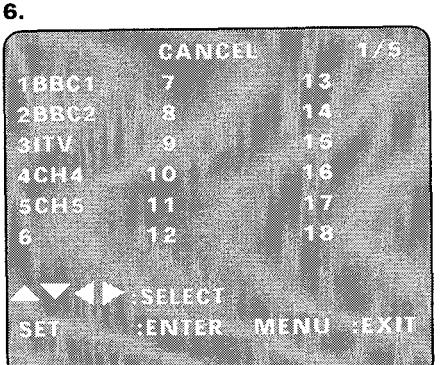


MANUALLY SORTING CHANNELS

RE-NAMING CHANNELS

When your VCR tunes in broadcast channels automatically, it names them using teletext information. You can change the name of a channel with the following procedure.

1. Press **MENU**.

2. Press [▲/▼] to select SET UP. Press **SET** to confirm.

3. Press [▲/▼] to select CHANNEL SORT. Press **SET** to confirm.

4. Press [▲/▼] to highlight NAME. Press **SET** to confirm.

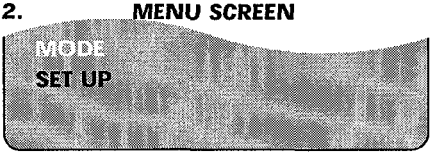
5. Press [▲/▼] to highlight the channel to be named. Press **SET** to confirm.

6. Press [▲/▼ / ◀/▶] to rename the channel. Press **SET** to confirm.

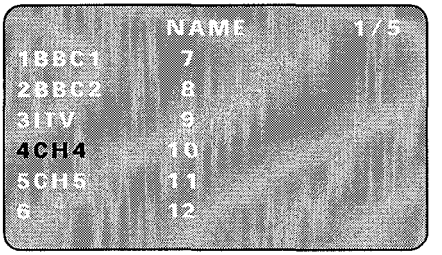
7. If any more channels are to be renamed, repeat the procedure from step 5.

8. When all the channels are named correctly, press **MENU** to leave the MENU function.

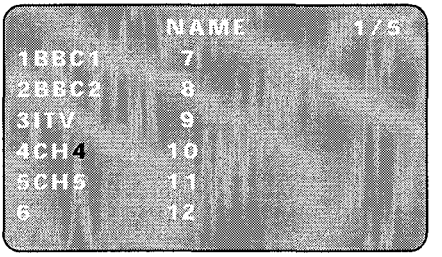
2. **MENU SCREEN**



5.



6.



MANUALLY SETTING THE CLOCK

The clock will normally be set using teletext information when your VCR automatically tunes in the broadcast channels. If for any reason teletext signals are not present your VCR will not be able to set the clock. This procedure will allow you to set the clock manually.

1. Press **MENU**. Press **[▲/▼]** to select SET UP. Press **SET** to confirm.

2. Press **[▲/▼]** to select CLOCK. Press **SET** to confirm.

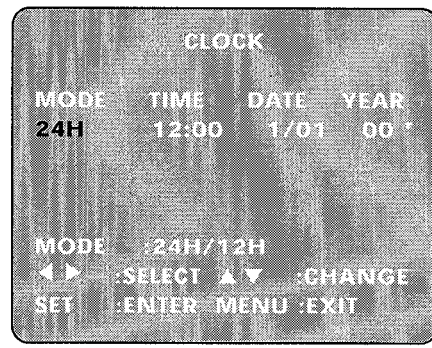
3. Press **[▲/▼]** to select either 12 or 24 hour clock.

4. Press **[◀/▶]** to select TIME. Enter the time using the **NUMBER BUTTONS** or **[▲/▼]**. If the minutes are less than 10, enter the leading 0. If using the 12 hour clock enter AM or PM by pressing (/) on the remote control.

5. Press **[◀/▶]** to select DATE. Enter the date using the **NUMBER BUTTONS**. For example, for 1st April enter **01 04**.

6. Press **[◀/▶]** to select YEAR. Enter the last two digits of the year using the **NUMBER BUTTONS**. For example, for1998 enter **98**. For the year 2000 enter 00.

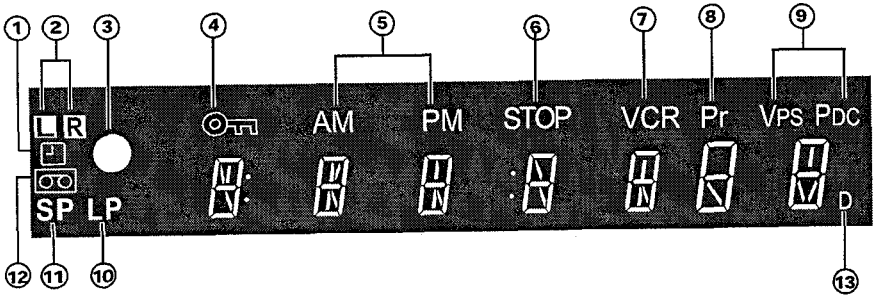
7. Select * for **AUTO CLOCK** on/off (* is **ON**, - is **OFF**). Then press **SET** to confirm.



NOTE:

If **AUTO CLOCK** is set to **OFF (-** is **OFF)** then you will need to update the clock for Winter/Summer daylight saving.

VCR DIGITAL DISPLAY



① **TIMER** indicator.
② **AUDIO OUTPUT** indicators.
③ **RECORDING** indicator.
④ **CHILD LOCK**indicator.
⑤ **AM/PM** indicators.
⑥ **STOP** indicator.
⑦ **VCR mode** indicator.
⑧ **PRESET CHANNEL** indicator.
⑨ **VIDEO PROGRAMMING SYSTEM/PROGRAMME DELIVERY CONTROL** indicator.
⑩ **LONG PLAY** indicator.
⑪ **STANDARD PLAY** indicator.
⑫ **VIDEO TAPE** indicator.
⑬ **DECODER** indicator

NOTE:
Some models do not have all the features shown, therefore, they will not appear on the display.

SELECTING THE OUTPUT FROM THE VCR

If your VCR is connected to your TV with a scart lead, when you start to play a video tape the VCR will automatically switch its output so that the playback picture is shown on the TV. In this case 'VCR' will appear on the VCR display.
You can manually override this by pressing **[TV/VCR]** on the remote control. Now the TV broadcast channel will be seen on the TV screen and 'VCR' will disappear from the VCR display.

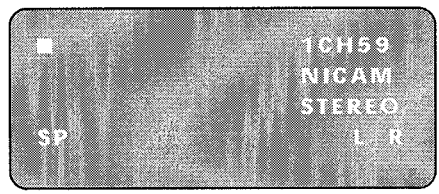
- Pressing **[TV/VCR]** again will return the TV picture to the playback picture.

ON-SCREEN DISPLAY

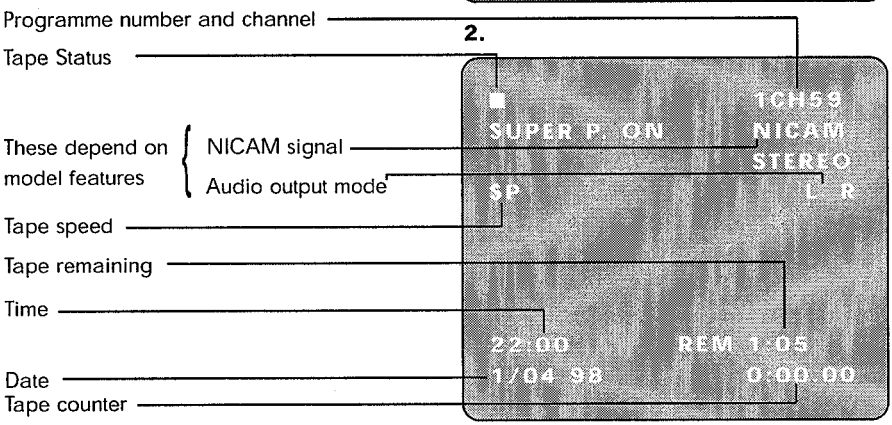
All the information you need on the VCR status will be summarised on the on-screen display. If you are recording, playing back a tape or watching a broadcast on the video channel you can call up three standard on-screen displays. The display can be selected by pressing the **MODE OSD** button on the remote control, 1,2,3 or 4 times.

1. **AUTO,** the current mode and channel number will be displayed for 3 seconds when an operation or number button is pressed.
2. **FULL.,** all the active features will also be shown on screen.

1.

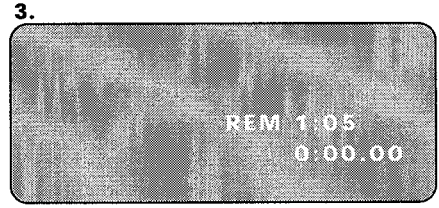


2.



3. **COUNTER**, this display will show the tape counter and amount of tape remaining.
4. **DISPLAY OFF**, this will remove the display from the screen.

3.



NOTES:

- The default time and date will not be displayed if the clock has not been set.
- The VCR will return to display **1.** each time it is switched on.
- If you are recording from this VCR to another, make sure you remove the display from the screen otherwise it will be recorded.

SPECIFICATIONS

Format:	VHS PAL standard
Number of heads:	Four heads (Two heads - **VC-M321HM** model only)
Video signal system:	PAL colour or monochrome signal: 625 lines
Hi-Fi audio recording system:	Deep-layer recording system conforming to stereo Hi-Fi standard (**VC-MH721HM/LM** models only)
Maximum playing time:	480 min. with E-240 video cassette in Long play (LP) mode
Tape width:	12.7 mm
Tape speed:	23.39 mm/s Standard Play (SP): 11.70 mm/s Long play (LP)
Antenna:	75 Ω unbalanced
Reception channels:	UHF channel 21-69 (VHF Channels A-J, **VC-MH721LM** model only)
RF output signal:	UHF channel 21-69
Power requirement:	AC 230-240 V, 50 Hz
Power consumption:	14W (16W **VC-MH721HM/LM** models only) Low power ≤ 1W
Operating temperature:	5°C to 40°C
Storage temperature:	-20°C to 55°C
Video input:	1.0 Vp-p, 75 Ω
Video output:	1.0 Vp-p, 75 Ω
Audio input:	Line 1&2: -3.8dBs, 10 kΩ (Line3 -5.0dBs, 47KΩ **VC-MH721HM/LM** only)
Audio output:	Line 1&2: -3.8dBs, 1 kΩ
Hi-Fi audio:	Dynamic range: 90dB typ. (SP); Frequency response: 20 Hz - 20 kHz; Wow and flutter: < 0.005% Wrms (JIS A)(**VC-MH721HM/LM** only)
Dimensions:	360(W) x 289(D) x 93(H) mm
Weight:	3.2 kg (approx)
Supplied accessories:	75 Ω Coaxial cable, operation manual, remote control, AA battery (x2)

- Specifications are subject to change without notice as part of our policy of continuous improvement.
- No liability is accepted for any inaccuracies or omissions in this publication, although every possible care has been taken to make it complete and as accurate as possible.

TROUBLESHOOTING

PROBLEM	ANSWER
Display is not working.	• Make sure the VCR is not in LOW POWER mode. • Make sure the power cord is plugged in. • Make sure the wall socket has power (plug another appliance in).
VCR will not operate - ⏲ appears in VCR display.	• Press the **TIMER ON-OFF** button to disengage timer.
VCR will not respond to any commands.	• Check CHILD LOCK is not engaged. • Safety device operating: unplug VCR for 2 hours.
Tape cannot be loaded.	• Make sure there is no other tape in the VCR. • Make sure you are loading the tape correctly.
VCR cannot be operated by remote control.	• Remote control is too far away from the main unit. • Point the remote control at the VCR. • Batteries are flat - replace both. • Batteries have not been inserted correctly. • VCR is positioned in strong light.
No picture appears.	• Make sure TV is set to the video channel. • Check all connecting cables.
Rewind is not possible.	• Make sure tape is not at the start.
Picture does not change even though **CHANNEL ▲/▼** buttons are pressed.	• Make sure VCR is not in timer or menu mode.
Desired channel position cannot be selected.	• The channel position has been set to be skipped. Cancel the skip mode for that channel.
No colour or poor TV picture on normal viewing.	• Make sure all the cables are connected properly. • Make sure VCR power cord is properly plugged in.
Playback picture is snowy.	• Adjust the tracking using **CHANNEL ▲/▼** buttons. • Try another tape. • The video heads may have been contaminated - refer to a SHARP Service Facility.
Tape is automatically ejected when pressing **RECORD** (●) or **TIMER ON-OFF** buttons.	• The record-protection tab has been removed.
Playback/recording does not playback in stereo.	• Ensure VCR is connected to a stereo TV with SCART lead. • Programme may not carry stereo.
VIDEOPLUS does not record desired programme.	• Broadcast does not carry VPS/PDC signal which alters recording time. • Check VPS/PDC mode is switched to ON. • Ensure date and time are correctly set on the VCR.

GUARANTEE

SHARP Electronics (UK) Ltd (hereafter called Sharp) guarantee to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:

1. This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage by accident, misuse, fair wear and tear, neglect, tampering with the product, or repair other than by a Service Facility appointed by SHARP.

2. As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.

3. To benefit from this guarantee, any fault which occurs must be notified to SHARP, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.

4. The guarantee does not cover carriage costs, batteries or video tapes.

5. In the unlikely event of this product requiring repair, please contact the supplier from whom it was purchased. Where this is not possible, please contact the SHARP Customer Information Centre on the telephone number given below.

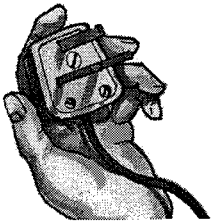
6. This guarantee is offered as an additional benefit to your statutory rights and does not affect these rights in any way.

7. No person has any authority to vary the terms or conditions of this guarantee.

If you have any difficulty operating this product, or would like information on other SHARP products, please telephone the SHARP Information Customer Centre on the number given below.

SHARP Customer Information Centre: Tel: 0990 274277
Please note that all calls are charged at local rate.

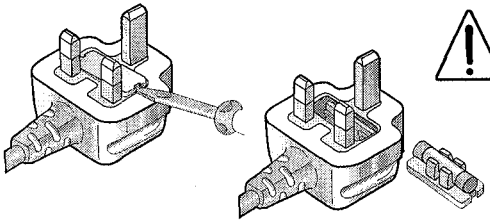
CONNECTING TO THE MAINS



This VCR is suitable only for connection to UK mains. The unit is fitted with a moulded 3-pin mains plug with a 3-amp fuse. The VCR does not have a mains power switch. When connected to the mains, the unit will draw current at all times to power the clock. Be sure to unplug the VCR when it is not to be used for several months.

TO REPLACE THE FUSE:

You must use a 3-amp fuse, marked (ASTA) or (BSI) to BS-1362. Remove the fuse cover as shown. Replace the fuse and re-fit the fuse cover securely into the plug.



Never connect the plug to the mains without the fuse cover fitted.

TO REPLACE THE MAINS PLUG:

If the plug fitted is unsuitable for the mains socket in your home, cut off the plug, remove the fuse and dispose of the cut-off plug safely.

Severe electric shock may occur if you connect the cut-off plug to a mains socket. If a new plug is fitted, observe the wiring code supplied by the plug manufacturer (and given below.) If you have any doubt, consult a qualified electrician.

The wires in the mains cable are colour coded as follows: blue = neutral, brown = live. As the colours of the wires may not correspond with the terminals in your plug, connect the wires following plug manufacturer's guide:

- blue wire to the terminal marked N or coloured black or blue.
- brown wire to the terminal marked L or coloured red or brown.

Ensure neither the brown nor the blue wire is connected to the earth terminal in your plug.

Do not allow water to come into contact with the power supply cord or plug.

A damaged power supply cord or loose plug may cause electric shock. Contact your SHARP dealer or a qualified electrician. Do not use the VCR.